

Abstract

The object of the present invention is to provided a compiler for parallel computers that enable rapid processing by introducing a new data structure. A compiler 20 which compiles a source program 10, which includes a parallelization directive, executes a step of detecting a parallelization directive in the source program; and if the parallelization directive is detected, generating a front-end intermediate language for the parallelization directive by positioning on a storage region, each processing code of at least part of the parallelization directive with a hierarchical structure in accordance with an internal structure of the parallelization directive. In addition, the compiler 20 may execute a step of: adding to the front-end intermediate language of a statement to which the parallelization directive is applied, reference information from the front-end intermediate language of the statement to which the parallelization directive is applied, to the front-end intermediate language for the parallelization directive.

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